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EXAMINER

KARIKARI, KWASI

ART UNIT PAPER NUMBER

2686

DATE MAILED: 08/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/627,053

Applicant(s)

CHANG, JIUN-BEI

Examiner

Kwasi Karikari

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 7 is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☒ Claim(s) 6 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. Claim 6 is objected for the following reasons:

In claim 1, the applicant recites the limitation "said 3G wireless communication network ". However, there is insufficient prior antecedent basis for this limitation in the claim. It appears the limitation "said 3G wireless communication network" should be changed to "said wireless communication network" to correct an apparent typographical error. Correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under U.S.C. 102(b) as being unpatentable over

Fraccaroli (U.S. 6,748,223), (hereinafter Fraccaroli).

Regarding **claim 1**, Fraccaroli discloses a method for implementing a portable guide and guard system having a portable guide and guard device (apparatus 12, Fig. 12), a communication connecting system (digital cellular communication system 10, Fig. 1) and an information service station (assistance center 26, Fig. 1), wherein: said portable guide and guard device comprises:

- a mini-camera (Fig. 1, item 42),
- a sound gathering unit, (Fig. 1, item 38),
- a sound broadcasting unit, (Fig. 1, item 32),
- an antennal terminal (Fig. 1, item 32), and

said communication connecting system (10) at least comprises

- a wireless communication network (apparatus 12 communicates to base transceiver station through radio link, see col. 4, lines 60-65),

- a communication system (Fig. 1, items 14,18 and 22), and

- a wired communication network (Fig. 1, item 24),

said information service station (26) at least comprises

- a service center (26) having plural sub-systems, wherein said plural sub-systems comprises

- a signal exchanging device (detector receives position information and digital image from the network, see col. 6, lines 63-66 and Fig. 2, item 78),

- a database system (Fig. 2, item 87),and

- plural human-machine interfaces (digital image is provided to the assistance center, personnel prepare an appropriate response to the request, see col. 3, lines 42-50); and

said method for implementing said portable guide and guard system comprises steps of:

- 1) receiving an external image via said mini-camera of said portable guide and guard device for generating a live video signal (the digital image of the perpetrator is captured, see col. 6, lines 40-42),

receiving a sound from a user and/or an outside via a microphone of said sound gathering unit for generating a live audio signal (voice communications between the call-originator and personnel at the assistance center are also affected, see col. 6, lines 26-28),

transmitting said video signal and said audio signal through said portable guide and guard device to said antennal terminal of said portable guide and guard device (plurality of images can be provided together with voice communication, thereby to provide a streaming video sequence to assistance center, see col. 6, lines 26-32) and

emitting said video and said audio signals by means of a wireless electromagnetic wave (plurality of images can be provided together with voice communication, thereby to provide a streaming video sequence to assistance center, see col. 6, lines 26-32),

2) receiving said wireless electromagnetic wave by a base station of said wireless communication network and then transmitting said video and audio signals to said communication system (receiver circuitry 34 coupled to a data sink 36 and the transmit circuitry 34 operate to send signals to base transceiver station 14, see col. 5, lines 9-22);

3) exchanging and processing said video and audio signals by said communication system which relays said signals and then transmitting thereof to said wired communication network (information request is transmitted to the assistance center by the system 14,18,22 and 24, see col. 4,lines 36-59) ;

4) sending said video and audio signals to said remote service center through said wired communication network (information request is send to the assistance center through network 24, see col. 4, lines 50-59);

5) receiving said video and audio signals by said signal exchanging device of said service center (detector receives information (72, 74 and 76) to/from the network, see Fig. 2),

a service personnel at said human-machine interface implements necessary processing procedures and then sending a responding dialogue through a microphone of said human-machine interface in response to said image and said sound (digital image and voice are provided to the assistance center, personnel prepare an appropriate response to the request, see col. 3, lines 42-50 and col. 6, lines 52-62); and transmitting a voice signal of said responding dialogue out sequentially through said human-machine interface, said internal network, and said signal exchanging device in said service center (two way communications are permitted as call- originator could call the assistance center, see col. 4, lines 60-66);

6) reverse-transmitting said voice signal from said service center to said portable guide and guard device of said user through the same pathway so as to assist said user to converse with said service center and set forth questions through the connection there between (two way communications are permitted as call- originator could call the assistance center, see col. 4, lines 60-66).

Although Fraccaroli teaches about apparatus 12 and the assistance center, Fraccaroli is silent on a central processing unit, a power unit in the mobile phone, a main computer system and an internal network at the assistance center 26 and the steps of:

sending said video and audio signals to said main computer system after being processed by said signal exchanging device and simultaneously sending said video and audio signals to said database system for recording and to one of said plural human-machine interfaces through said internal network by said main computer system, depending on said received image and said received sound from said user and/or outside.

However, these features and steps deemed to be inherent to the Fraccaroli radio communication system as it would be inoperative if the mobile phone does not have a central processing unit, a power supply and the assistance center 26 does not have a main computer system and internal network to thereby communicating to the dispatch unit. Sending said video and audio signals to said main computer system after being processed by said signal exchanging device and simultaneously sending said video and audio signals to said database system for recording and to one of said plural human-machine interfaces through said internal network by said main computer system, depending on said received image and said received sound from said user and/or outside; would also be inoperative if the communication between mobile station and the assistance center as shown on col. 4, lines 60-66, is impossible.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 2 are rejected under U.S.C. 103(a) as being unpatentable over Fraccaroli (U.S. 6,748,223), (hereinafter Fraccaroli) in view of Seeley et al., (U.S. 6,618,074), (hereinafter Seeley).

Regarding **claim 2**, Fraccaroli discloses the claimed limitations according to claim 1, but fails to teach said information service station further comprises an Internet, an Internet connection network between said service center and said Internet and an Internet server, which is added in said sub-systems of said service center, so that said service center cooperates an Internet information obtained from said Internet due to a searching ability thereof with an information transmitting ability achieved by said method so as to implement said portable guide and guard system and provide the Internet information and all kinds of on-line services to said user over the Internet.

Reele teaches an Ethernet channels are employed at central station and the communications between premises F and the central station is by ISDN line (see col. 10, lines 9-14, col. 10, lines 54-67 and Fig. 1 item F).

It would therefore have been obvious to one of the ordinary skill in the art to combine the teaching of Seeley into the system of Fraccaroli for the benefit of

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achieving a system where dispatch information could be conveyed over an Ethernet network.

Claim 3 is rejected under U.S.C. 103(a) as being unpatentable over Fraccaroli (U.S. 6,748,223), (hereinafter Fraccaroli) in view of McIntosh et al., (U.S. 20030081565), (hereinafter McIntosh).

Regarding **claim 3**, Fraccaroli discloses the claimed limitations according to claim 1, but fails to teach said wireless communication network and said communication system both are 3G wireless mobile communication systems.

McIntosh teaches that the communication network is a third-generation mobile communication network (see Page 2, line 0016).

It would therefore have been obvious to one of the ordinary skill in the art to combine the teaching of McIntosh into the system of Fraccaroli for the benefit of achieving a network a device which could function in 3G wireless communication networks.

Claim 4 is rejected under U.S.C. 102(b) as being unpatentable over Fraccaroli (U.S. 6,748,223), (hereinafter Fraccaroli) in view of Reelee et al., (U.S. 5,893,037), (hereinafter Reelee) and further in view of Mogensen (U.S. 20040105460 A1), (hereinafter Mogensen).

Regarding **claim 4**, Fraccaroli discloses a portable guide and guard system (Fig. 3, item 12), comprising:

a mini-camera (Fig. 1, item 42),

a sound gathering unit (Fig. 1, item 38),

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a sound broadcasting unit (Fig. 1, item 32),

an antennal terminal and (Fig. 1, item 32),

wherein: said mini-camera at least comprises

an optical camera (Fig. 1, item 42), and

an image processing element (Fig. 1, item 44),

wherein after an external optical image captured by said optical camera passes through said image processing element, an analog signal thereof is transformed into a digital signal which is then inputted into said central processing unit for processing a signal output procedure (the digital image of the perpetuator is captured, see col. 6, lines 40-42);

said central processing unit is a computer component, wherein a video signal from said mini-camera and an audio signal from a microphone, which are passed through said output signal procedure, are transmitted to said antennal terminal by said central processing unit for emitting a wireless electromagnetic wave and an external electromagnetic wave received by said antennal terminal is decoded by said central processing unit and then transmitted to said sound broadcasting unit for broadcasting the sound (receiver circuitry 34 coupled to a data sink 36 and the transmit circuitry 34 operate to send signals to base transceiver station and communication is established between the mobile phone and the assistance center, see col. 5, lines 9-22 and col. 6, lines 21-32);

said sound gathering unit comprises a fixed microphone (see Fig. 1, item 38) positioned above a panel of said device and a sound gathering element position inside

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said device, wherein an external sound is received by said fixed microphone, transmitted to said sound gathering element for proceeding a signal processing, and then transmitted to said central processing unit for proceeding an output processing of the sound signal (data source is operable to transduce acoustic signals into electric form for transmission, see col. 5, lines 9-26);

said sound broadcasting unit comprises a fixed speaker and an external earphone position above said panel of said device and a sound broadcasting element positioned inside said device, wherein a voice signal received by said antennal terminal is processed by said sound broadcasting element and then transmitted to said speaker, said external earphone and an external earphone of said microphone so as to broadcast the sound (receiver circuitry 34 coupled to a data sink 36 and the transmit circuitry 34 operate to send signals to base transceiver station 14, see col. 5, lines 9-22);

said antennal terminal at least comprises an emitter, a receiver and an antenna, wherein an encoded signal from said central processing unit is electro-magnetically modulated by said emitter so that a wireless electromagnetic wave signal is emitted through said antenna, and a wireless electromagnetic wave signal received by said antenna from said wireless communication network is demodulated by said receiver and then transmitted to said central processing unit for signal decoding and processing other sequential procedures (mobile station 12 has receiving circuit 32 and transmitting circuit, see col. 5, lines 9-26), but fails to teach the coupling and detaching feature of the

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device, a central processing unit and a power unit .and the measurement of power residue.

Reele teaches about a cellular telephone that could be couple to a camera unit (see col. 1, lines 56-62), a memory unit (see Fig. 5, item 52) and recharging unit to charge battery (see col. 6, lines 11-20).

It would therefore have been obvious to one of the ordinary skill in the art to combine the teaching of Reele into the system of Fraccaroli for the benefit of achieving a device that could be separated and functions as individual units.

The combination of Fraccaroli and Reele fails to teach the measurement of power residue.

Mogensen teaches the means of measuring power residue resource in a communication system (Page 1, line 0018).

It would therefore have been obvious to one of the ordinary skill in the art to combine the teaching of Mogensen with the system of Reele and Fraccaroli for the benefit of achieving a device that could measure the power residue resources to enable proper system management.

Claim 5 is rejected under U.S.C. 103(a) as being unpatentable over Fraccaroli (U.S. 6,748,223), in view of Reele et al., (U.S. 5,893,037), and further in view of Mogensen (U.S. 20040105460 A1) and further in view of Brady (U.S. 6,390,845), (hereinafter Brady).

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Regarding **claim 5**, the combination of Fraccaroli and Reelee discloses the claimed limitations according to claim 4, but fails to teach wherein said device comprises

- a power switch,
- a button of portable guide and guard function,
- a speaker mute button,
- a volume regulating button,
- a status indicator,

which are external operating and display elements.

Brady teaches a power switch (power off/on switch, Fig.1, item 18), a button of portable guide and guard function (key pad or function switch, Fig. 1, item 14), a speaker mute button (volume control, Fig. 1, item 18), a volume regulating button (volume control, Fig. 1, item 18) and a status indicator (mode of operation, see col. 4, lines 58-67).

It would therefore have been obvious to one of the ordinary skill in the art to combine the teaching of Brady with the system of Mogensen, Reelee and Fraccaroli for the benefit of achieving a device that has multiple features that allow efficient operation.

Claim 6 is rejected under U.S.C. 103(a) as being unpatentable over Fraccaroli (U.S. 6,748,223), in view of Reelee et al., (U.S. 5,893,037), and further in view of Mogensen (U.S. 20040105460 A1) and further in view of Brady (U.S. 6,390,845), (hereinafter Brady).

Regarding **claim 6**, Fraccaroli further discloses the device as claimed in

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claim 5, wherein said external operating and display elements further comprises a emergency calling button for notifying a service center and looking for an immediate assistance under an emergency situation (mobile station includes a user actuator key 52 for emergency call to the assistance center, see col. 5, lines 45-50).

4. ***Allowable Subject Matter***

1. *Claim 7 is allowed*

2. The following is a statement of reasons for the indication of allowable subject matter:

The most relevant prior art of record Fraccaroli (U.S. 6,748,223) discloses apparatus, associated method Apparatus, and an associated method, by which to provide a digital image, created at the mobile station by a digital camera forming a portion thereof, to an assistance center, such as an emergency dispatch center. The digital image is created automatically upon initiation at the mobile station of a request for assistance from the assistance center.

Initiation of a 911 emergency call, for example, causes a digital image to be created by the digital camera, and signals representative of the created digital image are automatically sent to the assistance center. Once received at the assistance center, viewing of the digital images provides personnel at the assistance center with additional information by which best to

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respond to the request for assistance. And, the digital image is storable thereat for evidentiary purposes, and Reeley et al. (5,893,037) discloses a combined electronic/silver-halide image capture system with cellular transmission capability.

The instant invention with respect to claim 7 is directed to a separate portable guide and guard device for coupling to a portable guide and guard system, comprising a 3G mobile phone and an external video/audio input/output device, wherein: said external video/audio input/output device comprises a mini-camera, a microphone, a speaker, a power/signal line and a plug thereof for connecting to said 3G mobile phone and an emergency calling button; and said 3G mobile phone comprises: 1) a central processing unit for processing all signals, data and control instructions in said external video/audio input/output device; 2) a sound gathering unit having an external microphone accessory and a sound gathering element, wherein an external sound received by said microphone of said external video/audio input/output device is inputted into said sound gathering element of said 3G mobile phone through said power/signal line and, on the other hand, a voice from said external microphone accessory is transmitted to said central processing unit of said 3G mobile phone for proceeding a voice output processing, and furthermore, said sound gathering element has an ability of echo elimination which is initiated when said microphone of said external video/audio input/output device and said external microphone accessory of said 3G mobile phone are simultaneously operated so as to reduce an echo; 3) a sound

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broadcasting unit having an external earphone accessory and a broadcasting element, wherein a voice signal received from an antennal terminal of said 3G mobile phone is processed by said broadcasting element and then transmitted to said speaker of said external video/audio input/output device through said power/signal line for broadcasting said voice, and, on the other hand, a voice from a service center is received through said external earphone of said 3G mobile phone; 4) an antennal terminal for emitting and receiving a wireless electromagnetic wave of said external video/audio input/output device; 5) a power unit for supplying all power demanded by said external video/audio input/output device; 6) a power switch, wherein after said plug of said power/signal line of said external video/audio input/output device is plugged into a socket of said 3G mobile phone, said power switch immediately has an ability to initiate a power supply, and then said external video/audio input/output device is synchronous to an operation of said power switch of said 3G mobile phone; 7) a function of power on/off said portable guide and guard, wherein after said plug of said power/signal line of said external video/audio input/output device is plugged into said socket of said 3G mobile phone, said portable guide and guard function is initiated/shut down through pressing a confirm button of said 3G mobile phone; 8) a function of speaker mute which is initiated/shut down through choosing a mute sub-selection in a menu of portable guide and guard of said 3G mobile phone; 9) a volume regulating button for also controlling a volume of said speaker of said external video/audio input/output device; and 10) an earphone/microphone socket for externally connecting an earphone/microphone accessory to obtain a sound gathering function from said microphone and a sound

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broadcasting function from said earphone. The above novel features as specifically set forth in claim 7 are not taught nor made obvious by Fraccaroli and Reelee alone or in combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kim (6,278,884) teaches a portable information communication device.

Hollstrom et al.(20050009561 A1) teaches a portable telecommunication apparatus for controlling an electronic utility device


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kwasi Karikari whose telephone number is 571-272-8566. The examiner can normally be reached on M-F (8 am - 4pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on 571- 272 5905. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kwasi Karikari
Patent Examiner.



CHARLES APPIAH
PRIMARY EXAMINER

